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Surrey County Council.

ANNUAL REPORT

OF THE

COUNTY MEDICAL OFFICER OF HEALTH

INCLUDING

Reports to the Authorities of the United and
Separate Sanitary Districts, 1895,

OF

MEDICAL OFFICERS OF HEALTH

WITHIN THE COUNTY.

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ANNUAL REPORT

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COUNTY MEDICAL OFFICER OF HEALTH,

1895.

MY LORDS AND GENTLEMEN,

The following Report is printed and issued in accordance with the wishes of the Sanitary Committee of the County Council.

It has been the expressed wish of the Council that the Annual Report should be issued in May. In deference to this wish, which was clearly stated in last year's Report, all the medical officers (half of whose remuneration is through the County) have sent in their statistical Reports sufficiently early to enable them to be summarized and issued with this Report. The Report of the Medical Officer for Kingston Borough was promptly made, and I was favoured with a copy in January.

The County Report issued last year contained a very full account of the work carried on under Sanitary Authorities. It was intended in fact as a record, a review, and a guide. The following short Report merely records what has been accomplished and the advances made during the year under notice. These will be shortly summarized under headings similar to those of the 1894 Report, which was issued at the end of June, 1895, about ten months ago.

I.—COUNTY MEDICAL OFFICER OF HEALTH.

STANDING ORDERS.

Under this heading, which is the counterpart of that which appeared at page 7 of the 1894 Report, I beg to refer briefly to the Standing Orders. I received a letter from the Clerk of the Council, dated April 5th, 1895, inviting observations on the above, to which I replied by letter, dated April 8th, 1895. Typewritten copies of this letter were sent to the Chairman of the Council (E. J. Halsey, Esq., J.P.), the Vice-Chairman of the Council (The Rt. Hon. Lord Ashcombe), and the Chairman of the Sanitary Committee (Wm. Welch, Esq.). After Conference at the County Hall, the Standing Orders (Surrey County Council Standing Orders, pp. 31 & 32) were agreed upon and subsequently adopted.

The work which thus devolves on me officially may, as before, be classified under four heads—(a) Advising and Conferring; (b) Inspections and Special Inquiries. (c) Corresponding. (d) Reporting and giving Evidence.

(a) CONFERENCES, &c.—These have comprised several important Conferences with the Chairman of the Council and others at the County Hall; they have concerned subjects of far-reaching importance, viz.: Water supply in the County; the special interests of the County in other matters affecting the Public Health, *e.g.*, the sewage disposal nuisance at the Camp on the immediate borders of the County; the provision of hospital accommodation for Richmond and other places; the future prospects of preventing pollution of the River Wey and the River Wandle with trade refuse; Schools and Epidemic Diseases; Educational influences and Public Health, &c.

I have also conferred frequently with Medical Officers of Health respecting the notification of infectious diseases and preventive measures generally. With regard to this department of work, as I have before observed, too much publicity is undesirable. It would, in fact, be likely to defeat the main object which has to be kept in view, viz., the early adoption of precautionary measures. It must, therefore, be understood that this work is always proceeding, and that, as far as I am concerned, I endeavour to conduct it with care and discretion.

(b) INSPECTION.—Whenever I have had reason to think that visits were necessary or desirable to spots where water supplies were liable to pollution, or where nuisances injurious to health existed, I have not failed to make inspections. I have thus visited several of the sewage disposal works in the County during 1895. I also repeated the inspection of the National Camp sewage disposal “marsh” or area, which, though not in Surrey, is immediately on its border. It is gratifying to note that it has been in consequence of my inspection and subsequent report to the Council (a report which I may remind the Council was fully borne out by an entirely independent authority, viz., Mr. Bailey Denton), that material improvements have been commenced by the Authorities of the War Office.

I have inspected new and instructive methods of sewage treatment or disposal at Andover, Albury, South Mimms, and lately at Ipswich, with a view to giving advice on the subject to Authorities in the County.

I have not had occasion in 1895 to make as many detailed house inspections as in previous years, but, with my colleague, Mr. Howell, I have inspected and advised on the County Police Station at Farnham, and some other places.

In connection with the very important question of burials and sewage disposal on chalk lands, I have inspected the sources of water supply at Sutton, and newly dug graves at Banstead. I have also inspected the drainage of Caterham Asylum, when it was exposed, for the purpose of commenting independently on the engineer's report of Mr. Baldwin Latham, the consulting engineer, on the possibilities of underground water contamination at that spot.

(c) CORRESPONDENCE.—This includes all the letters written by myself on various Sanitary and Public Health questions arising in the County. The only intermission in the correspondence was for about a fortnight in the month of March, when I was laid up with the Influenza.

(d) REPORTING.—I have had the duty of reporting to the Committee and advising on the following subjects, among others:—

- (1.) The Inquiries held by Order of the Local Government Board respecting Sanitary and Public Health matters, and the position of the County Council with reference thereto. (*Vide* Reports of the County Council, February 12th, 1895.)
- (2.) The Sewage Marsh, North Camp, in the district of Aldershot, but on the immediate border of Surrey. (*Vide* Reports of the County Council, May 14th, 1895.)
- (3.) The Sewage Disposal Works of the Sutton District Council, with special reference to the pollution of the Brook that passes through the parish of Merton.
- (4.) The Tanneries and Paper Mills at Godalming, with reference to river pollution.

- (5.) The Nuisance at Mickleham.
- (6.) The Burials at Banstead and the Sutton Water Supply.
- (7.) The Outbreak of Typhoid, due to the water supply of the Caterham Asylum.
- (8.) The Housing of the Working Classes at Egham.
- (9.) The subject of Hospital Accommodation, with special reference to Smallpox.
- (10.) Questions arising out of "Pollution" of the following streams or watercourses, viz.: The Blackwater, The Pyl Brook, The Beverley Brook, The Wey, The Mole, The Wandle.

I have organized a system of Monthly Notification Summaries for Surrey, which will be referred to below. These returns are regularly issued within the first week of the month following that to which they relate. They are at present sent only to Medical Officers of Health and to those specially concerned in Sanitary administration.

The Annual Health Report issued in 1895 has already been alluded to. It consisted of a small volume of the regulation County size of 147 pages, and was intended not only as a record, but as a review and guide as well. The following subjects were dealt with in separated sections, viz.: I. Summarized Statement. II. Sanitary Administration III. County Death-rate and Statistics. IV. Working of the Notification Act. V. Epidemic Diseases. VI. Preventive Measures. VII. Hospital Provision. VIII. Water Supply. IX. Housing of the Working Classes Act. X. New

Buildings, Bye-Laws, and Supervision. XI. House Sanitation generally. XII. Regulated Trades. XIII. River Pollution from Trade Effluents. Nuisances. XIV. Drainage, Sewerage, and Sewage Disposal. XV. Cleansing or Scavenging. XVI. Mortuaries and Cemeteries. XVII. Quarterly Reports of Dr. Stevenson, the County Analyst to the Council. XVIII. Quarterly Reports of Professor Axe to the Council.

The Report has answered the purpose it was intended to serve. I have every reason to think that its usefulness is appreciated.

II.—SANITARY ADMINISTRATION.

I have but little to add to what was said under this head ten months ago.

The improved Health conditions in the County, so far as they are due to the appointment of Medical Officers of Health being placed on a better footing, may be fairly said to have originated with the County Council. It may also be claimed to the credit of the Council that the Reports of Medical Officers are presented in a better form, and that measures and works of unquestionable benefit, have been quickened and promoted by the Council's influence.

The Reports which have come in for 1895 are almost all in book or pamphlet form. They are prepared with evident care, and have for the most part already received attention from the Press. This state of things is in striking contrast with that which I found to exist in 1890.

The principal change in administration during the year has arisen

from the alteration of Local Government Areas. There are now, altogether, 33 separate Sanitary Districts in the County; 23 of these are Urban and 10 are Rural. The addition to the Urban Districts has arisen from the constitution of Esher with Dittons, Chertsey, Walton, Weybridge, Frimley, and Leatherhead into separate Districts.

The appointment of Medical Officers of Health remains the same as that recorded last year, except that Frimley has its own Medical Officer.

III.—COUNTY DEATH-RATE AND STATISTICS.

The County Death-rate for 1895 was 13·5 per 1000 persons living. The average Death-rate of the County during the six years 1889-94 was 13·7. The Death-rate for the year under notice has, therefore, been slightly below the average.

The County Birth-rate for 1895 was 25·6. The average Birth-rate of the County during the six years 1889-1894 was 25·8.

The Infant Death-rate for 1895 was 113. The average Infant Death-rate of the County during the six years 1889-1894 was 107. The Infant Death-rate in the Urban Districts of the County last year was as high as 125. The rise in the Infant Death-rate is worthy of attention.

The Zymotic Death-rate continues to be favourable, when we compare the County rate with the rates prevailing in England and Wales. It is under 1 per 1000 (0·94), or, otherwise expressed, in 100,000 of the population there were no more than 94 deaths from this class of disease.

Excluding Smallpox, of which there were no fatal cases in 1895, the following list shows the Death-rates in the order of their fatality :—

Diarrhœa	...	...	32	deaths per 100,000.
Whooping Cough	...	...	23	„ „
Diphtheria and Croup	...	...	21	„ „
Measles	...	...	8	„ „
Fever (Typhoid)	...	...	7	„ „
Scarlet Fever	...	...	3	„ „

The Death-rates from Phthisis (Consumption) and Respiratory Diseases (Bronchitis and Pneumonia) for 1895 were as follows :—

Phthisis (Consumption)	...	...	102	deaths per 100,000.
Respiratory (Bronchitis and Pneumonia)	...	...	246	„ „

The Tables of Statistics have been compiled as usual with much care, and after comparison of notes with the several Medical Officers of Health.

IV.—WORKING OF THE NOTIFICATION ACT.

MONTHLY SUMMARIES AND STATISTICAL REPORTS FOR 1895.

I wish to take this opportunity of reporting briefly upon the Notification returns for the whole year of 1895. I think it is a subject of congratulation that we have been able to succeed without any special or compulsory powers in Surrey, but simply by means of the good general understanding which exists between the County Council and the various Authorities and their officers, in obtaining a complete system of Notification and inter-communication of noti-

fication returns amongst those primarily concerned. I need not present dwell upon the advantages which must ultimately accrue from this system. It will be generally recognised that a knowledge of the existence of epidemic diseases, some of them in large measure preventible, is absolutely essential for the Authorities in every County. In our own County the only return wanting was that of the Kingston Rural District, the constitution of which was undergoing a change, and that was only deficient for a few weeks. I have conveyed to the several Medical Officers personally my thanks for their co-operation.

The position of Surrey is exceptional, inasmuch as it is well in advance of other counties. At the same time it must be understood that this system is one which is likely to be generally adopted in the course of time, just as the system of Local notification itself has become adopted throughout the country, after the example had been set by Bolton, Nottingham, and some other important towns. Without that system a great deal of preventible illness would at present prevail, which under existing conditions is stopped in its inception.

I append the complete summaries of the returns for the whole year. I have placed the districts in the order in which they come in respect of their freedom from infectious disease. It will of course be noted that the significance of that freedom *or the reverse* is much less in the case of a small district such as Ham, with a population of only 1400, than it would be in districts with a population ten or twenty times the size, such as those of Richmond, Guildford, or Reigate.

SUMMARY of NOTIFICATION RETURNS for one whole year, 1895, showing the relative prevalence of Scarlet Fever, Diphtheria, and Typhoid (Enteric) Fever in the several Sanitary Districts in the County.

SCARLET FEVER.

					Number of Cases.	Rate per 1000 Population.
Ham	...	...	...	...	0	·0
Chertsey U.	...	...	...	...	9	·8
Farnham R.	...	...	...	...	13	1·0
Reigate R.	...	...	...	...	15	1·0
Walton	...	...	...	...	11	1·2
Woking	...	...	...	...	13	1·3
Chertsey R.	...	...	...	...	14	1·4
Sutton	...	...	...	...	19	1·4
CROYDON BOROUGH	...	...	...	...	160	1·4
Egham	...	...	...	...	15	1·5
Guildford U.	...	...	...	...	21	1·5
Dorking R.	...	...	...	...	15	1·5
Esher	...	...	...	...	14	1·6
Godalming	...	...	...	...	13	1·6
Hambleton	...	...	...	...	31	1·7
Dorking U.	...	...	...	...	12	1·7
Croydon R.	...	...	...	...	50	1·7
Surbiton	...	...	...	...	22	1·8
East Molesey	...	...	...	...	9	1·8
Guildford R.	...	...	...	...	36	1·9
Farnham U.	...	...	...	...	11	2·0
Reigate U.	...	...	...	...	48	2·1
Epsom R.	...	...	...	...	45	2·5
Kingston	...	...	...	...	70	2·6
Frimley	...	...	...	...	13	2·6
Epsom U.	...	...	...	...	21	2·6
New Malden	...	...	...	...	8	2·7

					Number of Cases.	Rate per 1000 Population.
Wimbledon	...	...	...	...	74	3·0
Carshalton	...	...	...	...	16	3·2
Barnes	...	...	...	...	51	3·4
Godstone	...	...	...	...	94	4·9
Weybridge	...	...	...	...	26	6·5
Richmond...	...	...	...	...	204	7·5
Leatherhead—(There were 67 cases Notified, but as they were mostly at the School it would be unfair to compare the Sickness rate of this District with the others.)						
Total for the County					1080	2·6

Population at Census, about 413,000. Exclusive of Croydon Borough,
population at Census, about 112,000.

DIPHTHERIA.

					Number of Cases.	Rate per 1000 Population.
Ham	...	...	...	...	0	·0
Esher	...	...	...	...	0	·0
Egham	...	...	...	...	1	·1
Woking	...	...	...	...	2	·2
Weybridge	...	...	...	...	1	·2
New Malden	...	...	...	...	1	·3
Richmond	...	...	...	...	9	·3
Sutton	...	...	...	...	6	·4
Dorking R.	...	...	...	...	4	·4
Godalming	...	...	...	...	3	·4
Epsom U. ...	...	...	...	...	4	·5
Epsom R. ...	...	...	...	...	9	·5
Hambledon	...	...	...	...	9	·5
Guildford R.	...	...	...	...	11	·6

					Number of Cases.	Rate per 1000 Population.
Reigate R.	...	...	...	...	9	·6
Croydon R.	...	...	...	...	22	·7
Kingston ...	...	...	...	...	21	·8
Reigate U.	...	...	...	...	21	·9
Walton ...	...	...	...	...	8	·9
Surbiton ...	...	...	...	...	12	1·0
Dorking U.	...	...	..	...	8	1·1
CROYDON BOROUGH	...	...	...	...	133	1·2
Farnham R.	...	...	...	...	18	1·4
Godstone R.	...	...	...	...	27	1·4
Molesey ...	...	...	...	...	7	1·4
Chertsey U.	...	...	...	...	17	1·5
Carshalton U.	...	...	...	...	8	1·6
Guildford U.	...	...	...	...	22	1·6
Wimbledon	...	...	...	...	47	1·6
Farnham U.	...	...	...	...	12	2·0
Leatherhead	...	...	...	...	8	2·0
Chertsey R.	...	...	...	...	27	2·7
Barnes ...	...	...	...	...	41	2·7
Frimley ...	...	...	...	...	20	4·0
Total for the County					415	1·0

Population at Census, about 413,000. Exclusive of Croydon Borough,
population at Census, about 112,000.

ENTERIC FEVER.

					Number of Cases.	Rate per 1000 Population.
Leatherhead	...	...	...	...	0	·0
Frimley ...	...	...	...	...	0	·0
Esher ...	...	...	...	...	1	·1
Egham ...	...	...	...	...	1	·1

					Number of Cases.	Rate per 1000 Population.
Dorking R.	...	...	...	...	1	·1
Epsom U. ...	...	...	...	...	1	·1
Godstone R.	...	...	...	...	3	·1
Reigate U.	...	...	...	...	5	·2
Carshalton	...	...	...	...	1	·2
Kingston ...	...	...	...	...	8	·3
Dorking U.	...	...	...	...	2	·3
Guildford R.	...	...	...	...	5	·3
East Molesey	...	...	...	...	2	·4
Guildford U.	...	...	...	...	5	·4
Epsom R. ...	...	...	...	...	7	·4
Reigate R.	...	...	...	...	6	·4
CROYDON BOROUGH	...	...	...	...	46	·4
Wimbledon	...	...	...	...	12	·5
Chertsey U.	...	...	...	...	6	·5
Chertsey R.	...	...	...	...	5	·5
Hambledon	...	...	...	...	9	·5
Godalming	...	...	...	...	4	·5
Barnes ...	...	...	...	...	10	·6
Surbiton ...	...	...	...	...	7	·6
Walton ...	...	...	...	...	5	·6
Sutton ...	...	...	...	...	9	·6
Croydon R.	...	...	...	...	18	·6
New Malden	...	...	...	...	2	·7
Weybridge	...	...	...	...	3	·7
Farnham R.	...	...	...	...	10	·8
Ham ...	...	...	...	...	1	1·0
Richmond...	...	...	...	...	33	1·2
Woking ...	...	...	...	...	16	1·6
Farnham U.	...	...	...	...	12	2·0
Total for the County ...					210	·5

Population at Census, about 413,000. Exclusive of Croydon Borough,
population at Census, about 112,000.

PUERPERAL FEVER.

There were 18 cases of Puerperal Fever in the Administrative County (population 413,000) during the year, and five in Croydon Borough (population 112,000). The cases occurred as follows: at Wimbledon and Farnham Urban Districts, and in the Hambledon, Epsom, Croydon, and Reigate Rural Districts, each one case. In the Richmond, Chertsey, and Guildford Urban Districts, and in the Farnham Rural District, two cases each, and in the Guildford Rural District, four cases—which indicated by far the heaviest incidence. In Croydon County Borough there were only five cases in a population of 111,000.

SMALLPOX.

There were six cases notified during the year in the Administrative County (population 413,000). They were distributed as follows:—

Barnes	1
Wimbledon	1
Kingston	2
Richmond	2

HYDROPHOBIA.

Two cases were notified in Croydon Borough.

MEASLES, INFLUENZA, AND WHOOPING COUGH.

The Notification Act does not at present extend to these diseases, consequently the information is not sufficiently reliable to admit of their prevalence being recorded as above.

V.—PREVENTIVE MEASURES GENERALLY.

I do not on this occasion propose to enter into this subject (which occupied some ten pages in the last Annual Report). I think it will be generally recognized, not only within the County but outside, that nowhere has the complicated and difficult duty of dealing with Epidemic Diseases (which devolves upon Sanitary Authorities) received more careful attention than in Surrey. The reports of all the Medical Officers contain very valuable information on the subject. Some of these reports, which I have already perused, are evidently drawn up with very great care, and I regard them as most instructive. I am able to report that they are all issued in a printed form and are available for those interested in the subject. At the time of writing this report they have all been received, but not sufficiently early to be fully reported. There would be a risk of injustice to the writers if I were to attempt, at present, to give a digest of the most valuable information that they contain.

VI.—WATER SUPPLY.

In the Report for 1894 I have already gathered together and published a considerable amount of information on this subject. It is one in which questions of scientific importance are blended with those of administration in such a way as to make it desirable that every opportunity should be afforded for careful consideration of Reports before publication.

On the present occasion I have merely to record the fact that my attention was drawn last Summer to circulars which were being sent by the Medical Officer for the Administrative County of London to Medical Officers of districts within the administrative County of Surrey. As the course thus taken by the Medical

Officer of the London County Council was likely to form a precedent I thought it my duty to immediately bring it to the notice of the Chairman of the Surrey County Council (E. J. Halsey, Esq, J.P.). This I accordingly did and received from him a letter, dated July 12th, the substance of which I communicated to the Officers concerned.

The subject of Water Supply from deep wells in the chalk formation, together with the question of safe methods of Sewage disposal in chalk lands, is of growing importance. I am continuing my inquiries in the County, as far as practicable into this subject. It is with regret that I record the attitude which the Sutton Authorities have taken with reference thereto. Such attitude seems to preclude "Inquiry," which I believe to be most desirable. Elsewhere I have recorded some of the steps that I had been able to take with reference to Banstead Burials, before the correspondence took place between the Sutton Authorities and the Chairman of the County Council.

In connection with that correspondence, which is fully reported on to the Council by the Sanitary Committee, I may say that with reference to a suggestion, for which I am responsible, that Monthly Analyses might be made of the Company's Water Supply. I have read the letter of the Secretary to the Water Company with some surprise. I submit that in the case of any Company supplying a large District with water, periodical Analyses, as in the case of the several supplies of the London and other Companies, is a very reasonable thing to suggest. As to the expense, it should be remembered that the whole amounts expended during the year would not, for example, be more, if as much as, that expended for analogous purposes, for example, on the annual over-

hauling (*i.e.* examination and testing) of the drainage arrangements of important establishments, such as Public School Buildings. No one would question the desirability of such examinations.

VII.—THE HOUSING OF THE WORKING CLASSES. NUISANCES REMOVALS, BYE-LAWS, &c.

Under these headings I gathered together last year the parts of the Reports published by the several District Council which relate to the subject.

It will be understood that this very useful work forms part of the current business of all Sanitary Authorities and that all the officials have their share in it, although of course this share varies in character according to the nature of the work undertaken by the official. It cannot be too often repeated that the work of Nuisances Removal is of the highest importance to the public health. It rests with Medical Officers chiefly to determine what really do constitute Nuisances injurious to health. This is a very responsible and by no means easy duty. Thus for example in Surrey we have at the present time to consider how far certain conditions, very properly reported on by the Inspectors of the Thames Conservancy Board, can rightly be regarded, by the light of present-day knowledge, as injurious to health. Again, conditions are sometimes reported as to the Drainage of Public Buildings and Dwellings, which, though considered by some to be a nuisance or annoyance, cannot really be said to come within the category of those which experience tells us need to be dealt with as injurious to health. Questions of difficulty that arise in the County under the above headings are frequently referred to me, and I am always ready to advise on them to the best of my ability.

The Reports issued by the District Councils show that systematic house to house inspection has been proceeding in the following Districts.

Barnes.—Westfields, Back Lane, Mortlake, and other localities. Current work reported. Dr. Adams (M.O.H.). Mr. Grylls (S.I.).

Richmond.—Special attention given to Nuisances from sewer ventilators underground lavatory, &c., proposed. Current work reported. Dr. Rowland (M.O.H.). Mr. Parson (S.I.).

Wimbledon.—Houses “unfit,” South Place, Berkeley Road, &c. Details of 162 house drains reconstructed. Piggeries, Old Farm, Gurfield Road, Cottenham Park, Durnsford Road, dealt with under the Act. Bad overcrowding cases discovered and dealt with. The “Hospital” again reported on most unfavourably. Current work reported. Dr. Pocklington (M.O.H.) and Mr. Mayne (S.I.).

Ham.—District visited 20 times. Current work reported. Dr. Donald (M.O.H.).

Kingston.—New houses (90) supervised. Old houses in Vine passage, Fuller’s Rents, and Back Lanes systematically dealt with. Differentiation in localities according to healthiness from sickness returns, &c. Current work reported. Dr. Beale Collins (M.O.H.). Mr. Fred. J. Pearce (S.I.).

Esher, with Ditton.—350 cottages inspected, and register of defects kept. Nuisances from sewer ventilators require attention, (No. 1 Kingston Rural Schemes of 1890). Current work reported. Dr. Senior (M.O.H.). Mr. Henderson (S.I.).

Malden, with Coombe.—Medical inspections very frequent. Houses in Beaconsfield Terrace, South View Villas, South Lane, Kingston Vale.

specially reported on. Some improvements effected Current work reported. Dr. Child (M.O.H.).

Surbiton.—Nuisances due to the prolonged frost specially attended to and reported on. The Tolworth Outfall Works (No. 2 Kingston Rural Scheme of 1890) criticised and improvements suggested. Provision for systematic house inspection indicated (*vide* County Reports on House Inspection). Current work reported. Dr. Owen Coleman (M.O.H.). Mr. Samuel Mather, C.E. (S.I.).

East and West Molesey.—Houses unfit for habitation, Lewis cottages effectually dealt with by local action ; new sewerage system reported on ; river bank nuisances require local attention. Current work reported. Dr. Knox (M.O.H.). Mr. Jno. Stevenson (S.I.).

Chertsey Urban.—Systematic house inspection reported , systematic cleansing of closets, &c. Current work reported. Dr. Jacob (M.O.H.).

Chertsey Rural.—Manure traffic at Byfleet ; nuisance reported and abated ; systematic cleansing of closets ; damp and dilapidated houses reported on ; systematic inspection ; steps believed to be efficient taken with reference to pollution of the Bourne at Chobham and at Bagshot. Current work reported. Dr. Jacob (M.O.H.). Mr. Durrant (S.I.).

Egham.—Cottages at the Glanty, Frog's Island, Sweeps Cave, and the Sandpits have had close attention. Current work reported. Dr. Woodforde (M.O.H.). Mr. Menzies, C.E. (S.I.), &c.

Weybridge.—Thames Street, and locality known as Sandpits, inspected systematically. Current work reported. Dr. Jacob (M.O.H.). Mr. Crawshaw (S.I.).

Walton.—Hersham and Oatlands systematically inspected ; drainage scheme at present before the Local Government Board. Dr. Jacob (M.O.H.).

Farnham.—Houses unfit, Lower Church Lane ; Factory yard, Snails-lynch, water closets without water ; Castle View, East Street, &c. Dr. Sloman (M.O.H.).

Farnham Rural.—Bartram's Mills several times inspected by the Medical Officer of Health, and by the County Medical Officer independently. No nuisance reported. Shottermill houses inspected and reported on. Current work reported. Dr. Lorimer (M.O.H.). Mr. Patrick (S.I.).

Frimley.—The Albert Orphanage. Overcrowded condition specially reported upon as dangerous to health. The whole district systematically inspected by the Medical Officer of Health and the County Medical Officer of Health jointly. The Basingstoke canal nuisance abated. Current work reported. Dr. Franklin Gillespie (M.O.H.). Mr. Hodgson (S.I.).

Hambledon.—177 nuisances reported and abated during the year. 20 earth closets substituted for privies. The tannery pollution continues.—Dr. Hall (M.O.H.) ; Mr. Simmonds (S.I.).

Godalming.—A large proportion of private houses have been connected with the public sewers. The tannery and mill pollution remains to be finally reported on.—Dr. Parson (M.O.H.).

Guildford.—Houses unfit for habitation dealt with successfully. Current work reported. Dr. Morton (M.O.H.). Mr. Tribe (S.I.).

Guildford Rural.—Scavenging at Albury carried out with remarkable success. Scavenging at Shere partial. Scavenging required for Stoke Ripley, and Merrow, &c. Nuisances at Stoughton from want of drainage. Ripley sewers improved. Bye-laws as to cesspool construction.—Mr. Wellington (M.O.H.). Mr. Dewhurst, C.E. (S.I.).

Woking.—Systematic scavenging ; occasional nuisances from cesspools ; overflowing, drainage schemes have had continuous attention ; gipsy encampments. Current work reported. Mr. Wellington Lake (M.O.H.). Mr. Wooldridge, C.E. (S.I.).

Dorking Rural.—Systematic inspection at Westcott, Capel and Newdigate ; houses “unfit” pulled down ; nowhere for the people to go ; great want of house accommodation in the district. Current work reported. Dr. Jacob (M.O.H.). Mr. W. Rapley, jun.(S.I.).

Dorking.—Water closets provided with water, altogether 114 in five years. Current work reported. Dr. Jacob (M.O.H.).

Leatherhead.—House to house inspection made by the County Medical Officer of Health showed that many nuisances exist here for want either of a good sewerage scheme, or a much better system of scavenging. Dr. Jacob (M.O.H.).

Epsom Rural.—The work of nuisances removal in this district has been comparatively at a standstill (*vide* Synopsis 1894 Report). The subject will be fully reported on shortly.

Epsom Urban.—Systematic inspection of East Street, the Compton and Adelphi Road made under Dr. Jacob’s directions, and a list of defects found given to the authority.

Sutton.—Nuisance arising from outlet of house drains to a water course (Pyl Brook) fully reported on ; removal of house refuse and cleansing of privies has received much attention. Current work reported. Dr. Jacob (M.O.H.). Mr. F. W. Kain (S.I.).

Carshalton.—Systematic inspection of St. James Road, St. John’s Road, St. Andrew’s Road, Levett’s Rents, Williams’s, Harold Road, Wandle Mount, and West’s Lane. Dr. Jacob (M.O.H.).

Croydon Rural.—This district unquestionably has the most complete organization in the county for dealing effectually with conditions of houses and their surroundings that are likely to be injurious to health ; the excellent report of the Medical Officer of Health (Dr. Mair) which has just arrived deals with the whole work of his department ably and thoroughly ; the nuisance due to “the heading back of the sewage” (vide last years report) has been effectually dealt with by the advice of Mr. Chatterton.

Reigate.—Sewerage improved ; nuisances from want of water to closets frequently reported. Dr. Jacob (M.O.H.). Mr. Nimrod Walter (S.I.).

Reigate Rural.—Systematic inspection at Horley, Merstham and Nutfield ; Walton-on-the-Hill nuisances from want of water to be reported on. Dr. Jacob (M.O.H.). Mr. Nimrod Walter (S.I.).

Godstone.—The Report of the Medical Officer (Dr. Oldman) contains valuable information and suggestive remarks on the subject of house accommodation in rural districts. Mr. Barralet reports on the current work of nuisances removal.

VIII.—REGULATED TRADES. TRADE NUISANCES TRADE EFFLUENTS.

The Report issued by the Croydon District Council, which is very carefully drawn up by the Medical Officer of Health, deals with these subjects methodically and exhaustively. The Medical Officers of a few other District Councils, such as Guildford Rural, Chertsey, and Farnham Rural, show their appreciation of the importance of the subject.

As regards Regulated Trades and Trade Nuisances, my own immediate action has had concern with such cases as the Bone Mills at Ash, as to which I was specially referred to. I have also taken opportunities of making myself acquainted with the condition

of the Slaughter-houses in both town and country districts, and offering such suggestions for their improvement as seemed to me practicable.

As regards the Trade Effluents I cannot speak at all favourably as to the action of District Councils. There seems to be a general unwillingness to undertake the duty of deciding what is for the general public good where important local interests are in conflict.

Godalming is the point where interest centres at present. I look forward hopefully to the completion of this scheme under able management. I only regret, that at the time of writing this report, it is not possible to record the fact that Messrs. Pullman, Rea, & Spicer, have made the necessary connections, though much of the preliminary work has been actually completed.

IX. --DRAINAGE, SEWERAGE AND SEWAGE DISPOSAL.

To these subjects in their relation especially to the protection of water supplies I give every thought and consideration, and, as far as practicable make myself personally acquainted with conditions which in my opinion it is important to ascertain. I have to acknowledge and thank the Chairman of the Council and the Committee for their cordial support in this work. On one occasion in which it was important to record facts with double certainty, Mr. Welch the Chairman and Col. Callwell, of Farnham, kindly accompanied me on an expedition to the sewage disposal area of The National Camp.

The Reports of the Committee which appear in the County Council volume of 1895 (viz., February 12th, pp. 155-160; May 12th, pp. 89-95; July 30th, pp. 122-126; November 12th, pp. 83-84), contain all the information on this subject.

In addition to the above recorded work I have made independent observations, where I thought it desirable to do so, respecting sewage disposal works, making communications where I thought it desirable to the persons concerned in the management of the works or to the Thames Conservancy. In this way I have been able to give information and advice, which I trust is appreciated. The list of places thus visited, and if occasion required revisited, includes Richmond and Mortlake, Wimbledon, Kingston, Tolworth, Malden, Molesey, Weybridge, Camberley, Sutton, Croydon, Beddington, Mitcham, and some other smaller places.

X.—REPORTS UNDER THE FOOD AND DRUGS ACT AND UNDER THE CONTAGIOUS DISEASES OF ANIMALS ACT.

The Quarterly Reports to the Standing Joint Committee under the Food and Drugs Act and to the Executive Committee under the Diseases of Animals Act, contained in the Quarterly Volumes of the Council, are here referred to for the information they contain on matters affecting Public Health.

CONCLUSION.

The above completes the Report that I have the honour to make for 1895. My object has been to make the Report as early as possible, not to omit anything that is essential to record concerning the duties that devolves upon me, and to make my statement as concise as possible for the convenience of the Council.

I am, &c.,

EDWARD SEATON.

County Medical Officer.

To the Surrey County Council,
April 30th, 1896.

(A)

TABLE A (Rural).

TABLE OF DEATHS during the year 1895, belonging to the Rural Districts of SURREY, classified according to Diseases, Ages, and Localities, and showing also the Populations of such Localities, and the Births therein during the Year.

RURAL DISTRICT.	POPULATION AT ALL AGES.		Registered Births.	MORTALITY FROM ALL CAUSES AT SUBJOINED AGES.							MORTALITY FROM SUBJOINED CAUSES, DISTINGUISHING DEATHS OF CHILDREN UNDER FIVE YEARS OF AGE.																								
	Census, 1891.	Estimated to middle of 1895.*		At all ages.	Under 1 year.	1 and under 5.	5 and under 15.	15 and under 25.	25 and under 65.	65 and upwards.	Smallpox.	Scarlatina.	Diphtheria.	Membranous Group.	FEVERS.					Cholera.	Erysipelas.	Measles.	Whooping Cough.	Diarrhoea and Dysentery.	Rheumatic Fever.	Ague.	Phthisis.	Bronchitis, Pneumonia and Pleurisy.	Heart Disease.	Injuries.	All other Diseases.	TOTAL.			
															Typhus.	Enteric or Typhoid.	Continued.	Relapsing.	Puerperal.																
1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	12.	13.	14.	15.	16.	17.	18.	19.	20.	21.	22.	23.	24.	25.	26.	27.	28.	29.	30.	31.	32.	33.	34.		
Chertsey	10,091	10,609	278	147	26	14	5	6	38	58	Under 5 5 upwds.	1	1	9	5	8	5	17	15	5	19	40
Egham.....	10,187	10,848	291	138	28	12	5	3	49	41	Under 5 5 upwds.	1	7	2	1	8	4	12	13	...	26	40
Farnham	13,411	14,318	475	243	52	23	11	13	65	79	Under 5 5 upwds.	...	...	2	...	...	2	...	...	1	...	...	...	...	3	...	...	3	20	23	26	7	47	75
Hambledon ...	18,428	19,438	496	276	59	19	3	12	80	103	Under 5 5 upwds.	...	...	1	...	...	1	...	...	1	...	1	...	17	2	...	...	2	17	28	26	1	37	78
Guildford ...	19,467	20,918	559	278	44	30	4	11	88	101	Under 5 5 upwds.	...	...	1	1	...	...	...	...	2	...	1	...	10	4	...	...	1	14	23	29	2	40	74
Dorking	10,091	10,524	193	131	14	13	6	6	39	53	Under 5 5 upwds.	2	1	3	2	1	...	1	4	21	13	3	14	27
Epsom†	18,000	16,621	378	210	37	16	6	6	74	71	Under 5 5 upwds.	...	1	1	...	...	1	...	...	3	...	...	1	...	5	...	...	20	9	24	22	2	34	53
Croydon† ...	28,717	29,280	769	352	87	30	15	12	106	102	Under 5 5 upwds.	...	2	4	...	...	4	...	...	...	...	...	3	14	...	...	...	19	9	52	29	1	83	117
Reigate	13,934	14,922	354	190	25	14	10	6	66	69	Under 5 5 upwds.	...	1	...	...	...	1	...	...	1	...	1	...	...	1	...	...	2	13	32	25	2	18	39
Godstone† ...	18,913	17,483	573	237	52	12	7	5	81	80	Under 5 5 upwds.	...	1	3	...	...	...	...	...	...	...	...	2	1	...	...	2	11	19	29	3	42	64	
Totals ...	161,239	164,961	4,366	2,202	424	183	72	80	686	757	Under 5 5 upwds.	...	4	9	2	...	1	...	...	8	...	1	5	50	37	1	...	11	106	227	6	14	360	607
												2	16	...	...	9	...	...	...	...	3	...	2	13	7	...	144	251	72	...	841	1595		

* In estimating the populations shown in Column 3 of Tables A, and used for calculating the rates in Tables B, the population of the County Lunatic Asylum in Woking Urban District has been distributed among all the Urban and Rural areas in the County.

† For the purposes of this Table (excepting Column 2) and of Table B, certain Public Institutions are excluded from the Districts in which they are situated :—Kensington and Chelsea District Workhouse Schools and Banstead Lunatic Asylum excluded from Epsom ; Cane Hill Lunatic Asylum and Holborn District Workhouse Schools excluded from Croydon ; Caterham Imbecile Asylum excluded from Godstone.

(A)

TABLE A (Urban).

TABLE OF DEATHS during the year 1895, belonging to the Urban Districts of Surrey, classified according to Diseases, Ages, and Localities, and showing also the Populations of such Localities, and the Births therein during the Year.

URBAN DISTRICT.	POPULATION AT ALL AGES.		Registered Births.	MORTALITY FROM ALL CAUSES AT SUBJOINED AGES.							MORTALITY FROM SUBJOINED CAUSES, DISTINGUISHING DEATHS OF CHILDREN UNDER FIVE YEARS OF AGE.																							
	Census, 1891.	Estimated to middle of 1895.*		At all ages.	Under 1 year.	1 and under 5.	5 and under 15.	15 and under 25.	25 and under 65.	65 and up-wards.	Smallpox.	Scarlatina.	Diphtheria.	Membranous Croup.	FEVERS.					Cholera.	Erysipelas.	Measles.	Whooping Cough.	Diarrhoea and Dysentery.	Rheumatic Fever.	Ague.	Phthisis.	Bronchitis, Pneumonia and Pleurisy.	Heart Disease.	Injuries.	All other Diseases.	Total		
															Typhus.	Enteric or Typhoid.	Continued.	Relapsing.	Puerperal.															
1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	12.	13.	14.	15.	16.	17.	18.	19.	20.	21.	22.	23.	24.	25.	26.	27.	28.	29.	30.	31.	32.	33.	34.	
Barnes	14,673	16,226	396	219	51	15	13	15	61	64	Under 5	...	...	6	...	...	...	...	...	...	...	...	1	2	6	...	...	...	12	1	1	37	66
											5 upwds.	...	1	4	...	...	2	...	...	...	...	...	2	1	...	...	...	18	27	15	2	81	153
Richmond ...	26,875	28,795	618	403	75	28	12	13	147	128	Under 5	...	2	...	...	...	...	...	...	...	...	...	1	...	4	...	...	...	23	...	5	68	103
											5 upwds.	...	1	...	...	...	4	2	...	...	...	...	...	...	...	1	...	27	52	25	16	172	300
Wimbledon ...	25,761	30,003	857	377	102	50	19	19	103	84	Under 5	...	...	10	1	...	...	...	...	...	...	...	2	11	15	...	...	...	28	...	...	85	152
											5 upwds.	...	...	6	1	...	1	...	...	1	...	1	...	...	...	1	...	16	36	16	9	137	225
Ham	1,479	1,508	45	18	7	...	1	...	6	4	Under 5	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	7	7
											5 upwds.	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	2	2	...	1	5	11
Kingston ...	27,059	29,856	954	563†	157	41	16	21	164	164	Under 5	...	...	3	4	...	...	...	...	...	...	...	6	7	20	...	...	2	48	...	...	108	198
											5 upwds.	...	...	...	...	...	1	...	...	...	...	1	...	1	...	...	...	53	78	44	12	175	365
Esher and Dittons ...	7,966	8,611	149	67	15	1	1	2	24	24	Under 5	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	3	...	...	12	16
											5 upwds.	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	6	3	9	2	31	51
The Maldens and Coombe	5,028	5,573	113	59	15	1	2	3	16	22	Under 5	2	2	1	...	13	16
and Surbiton	12,178	12,657	193	122	22	2	7	9	41	41	5 upwds.	...	1	1	2	1	2	9	3	...	28	43
											Under 5	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	4	1	...	19	24
East & West Molesey ...	5,396	6,026	140	75	21	4	3	3	30	14	5 upwds.	...	...	2	1	...	1	...	...	...	...	1	...	...	3	...	...	5	6	5	...	29	50
											Under 5	...	...	1	...	...	...	...	...	...	...	...	3	3	3	...	...	...	19	...	1	38	68
Chertsey	11,298	12,212	324	181	55	13	3	12	47	51	5 upwds.	...	...	...	...	...	1	...	...	...	...	1	...	1	...	1	...	22	41	13	5	28	113
											Under 5	1	1	10	12
Weybridge ...	3,944	4,344	108	47	9	3	...	...	19	16	5 upwds.	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	3	7	7	...	8	35
											Under 5	...	1	...	...	...	...	...	...	...	...	...	1	2	1	...	...	1	6	...	...	13	25
Walton	7,988	8,611	206	116	19	6	5	5	47	34	5 upwds.	...	...	1	...	...	1	...	...	...	...	1	...	...	...	...	...	7	24	15	5	37	91
											Under 5	1	7	3	19	30
Farnham ...	5,545	5,847	198	95	20	10	5	2	27	31	5 upwds.	...	...	1	...	...	...	...	...	...	...	...	...	...	...	1	...	4	13	11	1	34	65
											Under 5	4	1	2	5	11	23
Frimley	5,295	5,854	150	76	15	8	2	3	27	21	5 upwds.	...	...	4	...	...	...	...	...	...	...	...	...	...	...	...	6	10	7	...	26	53	
											Under 5	...	...	1	...	...	...	...	...	...	...	1	...	2	...	...	...	1	3	...	...	24	32
Godalming ...	8,117	8,749	240	133	26	6	2	9	38	52	5 upwds.	...	...	...	...	...	1	...	...	1	...	...	...	...	...	...	...	7	21	15	2	54	101
											Under 5	...	...	1	...	...	...	...	...	...	...	1	...	1	5	...	2	11	...	1	38	61	
Guildford ...	14,316	15,641	376	209	46	15	1	11	64	72	5 upwds.	2	1	1	...	18	17	18	8	83	148
											Under 5	...	...	...	...	...	...	...	...	...	...	...	2	16	5	...	...	...	8	...	4	29	64
Woking	9,776	8,970	289	144	45	19	8	2	38	32	5 upwds.	...	...	...	...	...	...	...	...	...	...	...	2	...	...	...	...	9	12	9	3	45	80
											Under 5	1	5	1	8	15
Dorking ...	7,132	7,492	174	91	9	6	6	1	35	34	5 upwds.	...	...	2	...	...	...	...	...	...	...	...	...	...	...	...	...	8	12	6	3	45	76
											Under 5	2	1	4	...	1	...	7	15
Leatherhead	4,305	4,644	104	51	7	8	4	2	14	16	5 upwds.	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	7	9	4	1	15	36
											Under 5	1	4	4	...	1	...	14	24
Epsom ...	8,417	9,077	215	120	18	6	3	3	45	45	5 upwds.	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	9	21	14	3	49	96
											Under 5	1	1	1	5	...	1	...	21	31
Sutton† ...	13,977	13,750	319	140	22	9	5	8	47	49	5 upwds.	...	...	1	...	...	1	...	...	...	...	...	...	...	...	2	...	10	24	13	3	55	109
											Under 5	3	...	4	1	7	23	38
Carshalton ...	5,425	5,687	175	101	31	7	4	3	28	28	5 upwds.	...	...	1	...	...	1	...	...	...	...	...	...	...	1	...	...	9	11	7	1	32	63
											Under 5	...	...	...	...	...	...	...	...	...	...	...	6	2	10	...	...	...	1	...	1	42	76
Reigate	22,646	24,397	519	313	54	22	6	19	102	110	5 upwds.	...	...	2	...	...	1	...	...	...	...	...	...	...	2	3	...	23	48	30	9	119	237
											Under 5	...	3	32	7	...	...	...	...	...	...	2	26	49	86	1	...	12	221	5	16	661	1121
Totals ...	254,596	274,530	6,862	3,720	841	280	128	165	1170	1136	5 upwds.	...</																						

* In estimating the populations shown in Column 3 of Tables A, and used for calculating the rates in Tables B, the population of the County Lunatic Asylum in Woking Urban District has been distributed among all the Urban and Rural areas in the County.

† For the purposes of this Table (excepting Column 2) and Table B, the South Metropolitan District Schools are excluded from Sutton.

‡ Including all deaths in the Union Workhouse.

TABLE B (Rural), 1895.—Density, Birth-rate, General Death-rate, Infant Mortality, Death-rates at various Ages, Death-rates from the principal Zymotic Diseases, and from Diseases of the Respiratory Organs.

RURAL DISTRICT.	Persons per acre in 1891.	Birth-rate to 1000 persons living.	Death-rate to 1000 persons living.	Deaths of Infants under one year to 1000 Births.	DEATH-RATES TO 1000 LIVING.			DEATH-RATES TO 1000 LIVING AT ALL AGES.										
					At ages 1-15.	At ages 15-65.	At 65 years of age and upwards.	Principal Zymotic Diseases.	Small- pox.	Measles.	Scarlet Fever.	Diphtheria.	Membranous Croup.	Whooping Cough.	Fever.	Diarrhœa and Dysentery.	Phthisis.	Respiratory Diseases.
Chertsey	0·41	26·2	13·9	94	5·4	7·0	105·6	1·51	...	0·09	...	0·09	...	0·86	...	0·47	0·75	2·07
Egham	1·31	26·8	12·7	96	4·9	7·8	83·2	1·02	...	...	...	...	...	0·65	0·09	0·28	0·74	1·47
Farnham	0·47	33·2	17·0	109	6·9	9·4	107·9	0·70	...	...	...	0·35	...	...	0·14	0·21	1·19	3·00
Hambledon	0·30	25·5	14·2	119	3·5	8·0	87·0	1·18	...	...	...	0·05	...	0·93	0·05	0·15	1·18	2·32
Guildford	(?)	26·7	13·3	79	4·7	8·2	89·7	0·91	...	...	...	0·05	0·05	0·52	...	0·29	1·34	1·77
Dorking	0·26	18·3	12·4	73	5·5	7·2	81·4	0·67	...	0·29	...	0·19	...	0·19	...	...	0·95	2·38
Epsom	0·58	22·7	12·6	98	4·1	8·0	79·1	0·60	...	0·06	0·06	0·06	0·06	...	0·06	0·30	1·20	1·99
Croydon	1·26	26·3	12·0	113	4·3	7·0	78·9	1·12	...	...	0·07	0·24	...	0·10	0·13	0·58	0·65	2·08
Reigate	0·32	23·7	12·7	71	4·8	8·2	89·4	0·68	...	...	0·07	0·27	...	...	0·07	0·27	0·60	3·02
Godstone	0·4	32·8	13·6	91	3·4	8·1	85·9	0·62	...	...	0·11	0·17	...	0·11	...	0·23	0·74	1·72
Total of above Districts	(?)	26·5	13·3	97	4·6	7·9	87·7	0·91	...	0·03	0·04	0·15	0·01	0·32	0·06	0·30	0·94	2·16

TABLE B (Urban), 1895. — Density, Birth-rate, General Death-rate, Infant Mortality, Death-rates at various Ages, Death-rates from the principal Zymotic Diseases, and from Diseases of the Respiratory Organs.

URBAN DISTRICT.	Persons per acre in 1891.	Birth-rate to 1000 persons living.	Death-rate to 1000 persons living.	Deaths of Infants under one year to 1000 Births.	DEATH-RATES TO 1000 LIVING.			DEATH-RATES TO 1000 LIVING AT ALL AGES.										Respiratory Diseases.
					At ages 1-15.	At ages 15-65.	At 65 years of Age and upwards.	Principal Zymotic Diseases.	Small- pox.	Measles.	Scarlet Fever.	Diphtheria.	Membranous Croup.	Whooping Cough.	Fever.	Diarrhœa and Dysentery.	Phthisis.	
Barnes ...	8.34	24.4	13.5	129	5.5	7.6	85.9	1.54	...	0.18	0.06	0.63	...	0.18	0.12	0.37	1.11	2.40
Richmond ...		21.5	14.0	121	5.3	8.4	79.9	0.48	...	0.03	0.10	...	...	...	0.21	0.14	0.94	2.60
Wimbledon ...	8.00	28.6	12.6	119	7.3	6.5	69.9	1.57	...	0.07	...	0.53	0.07	0.37	0.03	0.50	0.53	2.13
Ham ...	(?)	29.8	11.9	156	1.9	6.9	51.9	...	...	...	...	...	...	...	...	...	1.33	1.33
Kingston ...	24.29	32.0	18.9	165	6.1	10.1	120.9	1.40	...	0.20	...	0.10	0.13	0.27	0.03	0.67	1.84	4.22
Esher and Dittons ...	(?)	17.3	7.8	101	0.8	4.8	61.2	0.12	...	...	...	...	...	0.12	...	...	0.70	0.70
The Maldens & Coombe ...	(?)	20.3	10.6	133	1.6	5.8	74.1	0.18	...	...	...	...	...	...	0.18	...	0.36	1.97
Surbiton ...	(?)	15.2	9.6	114	2.9	5.8	62.2	0.32	...	...	0.08	0.08	...	...	0.16	...	0.71	1.74
East & West Molesey ...	3.55	23.2	12.4	150	3.9	8.7	47.0	1.34	...	...	...	0.50	0.17	...	0.17	0.50	1.00	1.83
Chertsey ...	1.05	26.5	14.8	170	3.9	8.2	80.6	1.06	...	0.33	...	0.08	...	0.24	0.08	0.33	1.80	4.91
Weybridge ..	2.87	24.9	10.8	83	2.1	7.4	70.8	0.23	...	...	...	0.23	...	...	...	...	0.69	1.84
Walton ..	1.16	23.9	13.5	9	3.8	10.2	75.9	0.83	...	0.12	0.12	0.12	...	0.23	0.12	0.12	0.93	3.49
Farnham ...	7.22	33.9	16.2	101	8.1	8.2	97.5	1.54	...	...	...	0.34	...	...	...	1.20	0.68	2.74
Frimley ...	0.69	25.6	13.0	100	4.9	8.9	70.2	1.88	...	...	...	1.37	0.17	...	...	0.34	1.02	2.56
Godalming ..	(?)	27.4	15.2	108	2.7	9.2	110.9	0.45	...	...	...	0.11	...	0.23	0.11	...	0.91	2.74
Guildford ...	23.70	24.0	13.4	122	3.4	7.6	94.9	0.57	...	0.06	...	0.06	...	0.06	...	0.39	1.28	1.79
Woking ...	1.10	32.2	16.1	156	8.8	7.7	66.1	2.79	...	0.45	...	...	...	1.78	...	0.56	1.00	2.23
Dorking ...	5.29	23.2	12.1	52	5.4	7.8	71.3	0.40	...	...	...	0.27	...	0.13	...	...	1.07	2.27
Leatherhead ...	1.23	22.4	11.0	67	8.0	5.7	63.7	0.65	...	...	...	0.43	0.22	...	...	...	1.51	2.80
Epsom ...	1.90	23.7	13.2	84	3.3	8.5	87.7	0.11	...	...	...	0.11	...	...	...	...	1.43	2.75
Sutton ...	7.61	23.2	10.2	69	3.3	6.4	88.9	0.28	...	...	...	0.07	...	0.07	0.07	0.07	0.73	2.11
Carshalton ...	1.85	30.8	17.8	177	5.8	9.2	97.6	1.76	...	0.52	...	0.18	...	...	0.18	0.88	1.76	3.17
Reigate ...	3.78	21.3	12.8	104	3.8	7.9	87.3	0.94	...	0.25	...	0.08	...	0.08	0.04	0.49	0.94	2.58
Total of above Districts	(?)	25.0	13.6	123	4.8	7.8	83.5	0.96	...	0.11	0.02	0.21	0.03	0.19	0.07	0.33	1.06	2.63



